

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
rk Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Cub	stitute for form 1449A/B/PT	^	· · · · · · · · · · · · · · · · · · ·	Complete if Known		
300	Suide for form 1445/40/FT	•		Application Number	10/017,568-Conf. #9941	
SU	PPLEMENTA	L IN	<b>IFORMATION</b>	Filing Date	December 14, 2001	
	DISCL			First Named Inventor	Michael B. Zemel	
S	TATEMENT E		=	Art Unit	1617	
U	INIEMENT.	<b>,</b> ,		Examiner Name	E. J. Webman	
Sheet	1	of	1	Attorney Docket Number	31894-192402	

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2</sup> ( if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			

	FOREIGN PATENT DOCUMENTS								
Exam Initial		Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>il known</i> )	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>		
	1-	BA	CN-1086384	05-11-1994	SONG MINGJIE		1		

\*EAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Description of the first issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²				

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	Date Considered	12/09

<sup>&#</sup>x27;Applicant's unique citation designation number (optional). 'Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2005. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)		Complete if Known			
				Application Number	10/017,568
		SCLOSURE	Filing Date	December 14, 2001	
	STATEMENT	BY A	APPLICANT	First Named Inventor	Michael B. Zemel
	STATEMENT BY APPLICAN		Art Unit	1616	
	(Use as many	sheets as	necessary)	Examiner Name	E. J. Webman
Shee	1	of	1	Attorney Docket Number	31894-192402

			U.S. F	ATENT DOC	UMENTS		
i	0	Document Number	Publication Da	te Name of Patentee or		Pages, Columns, Lines, Whe	
Examiner nitials*	Cite No.1	Number-Kind Code <sup>2</sup> ( if known)	MM-DD-YYYY		licant of Cited Document	Relevant Passages or Relevant Figures Appear	
	AA	US-6,384,088-B1	05-07-2002	2 Hinz			
			FOREIC	N DATENT D	OCUMENTS		_
			FUKEIG	N PATENT D	OCOMEN 13		_
Examiner	Cite	Foreign Patent Docur	nent	Publication	Name of Patentee or	Pages, Columns, Lines,	ĺ
Initials*	No.	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if kn		Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
		· · · · · · · · · · · · · · · · · · ·	T				Γ

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Senter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	. I manazina inumal canal eymoneum catalon atcli date nanetel yolumo-iccue numbertel nublichet						
F	CA	Garrow, J.S., et al., "Inpatient-Outpatient Randomized Comparison of Cambridge Diet Versu Milk Diet in 17 Obese Women Over 24 Weeks," <i>International Journal of Obesity</i> , 13: 521-529 (1989).						
	CB -	McCarron, David A., et al., "Blood Pressure and Nutrient Intake in the United States," Science 224:1392-1398 (1984).						
	CC	Metz, J.A., et al., "Modification of Total Body Fat in Spontaneously Hypertensive Rats and Wistar-Kyoto Rats by Dietary Calcium and Sodium," American Journal of Hypertension, Inc. 1:58-60 (1988).						
	CD ,	Skinner, J., et al., "Does Dietary Calcium Have a Role in Body Fat Mass Accumulation in Young Children?," Nutrition, suppl no 34, pp 45S (1999).						
	CE	Summerbell, Carolyn D., et al., "Randomised Controlled Trial of Novel, Simple, and Well Supervised Weight Reducing Diets in Outpatients," BMJ 317:1487-1489 (1998).						
	CF	Teegarden, D., et al., "Calcium Intake Relates to Change in Body Weight in Young Women," The FASEB Journal 13:A873, Abstracts Part II No. 660.4 (1999).						
V	CG	Zemel, Michael B., "Nutritional and Endocrine Modulation of Intracellular Calcium: Implications in Obesity, Insulin Resistance and Hypertension," <i>Molecular and Cellular Biochemistry</i> 188:129-136 (1998).						

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. 651459v1

Examiner	Date Considered	2/16
Signature	 Considered	65145201

Substitute for form 1449A/PTO

Sheet

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

O P E COLLEGE OF THE SERVICE OF THE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 1

Complete If Known						
Application Number	10/017,568					
Filing Date	December 14, 2001					
First Named Inventor	Michael B. ZEMEL et al.					
Group Art Unit	1617					
Examiner Name	Edward J. WEBMAN					
Attorney Docket Number	31894-192402					

U.S. PATENT DOCUMENTS								
		U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant		
Examiner Initials *	Cite No.1	Number	Kind Code <sup>2</sup> (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear		
	Al							
	A2							

				FOREIGI	N PATENT DOCU	MENTS		
		Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
Examiner Initiats*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number*	Kind Code <sup>5</sup> (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Тв.
	BI							
	B2							

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Cite		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
/ cı		Xue, B., Greenberg, A.G., Kraemer, F.B. and Zemel, M.B., [2001] "Mechanism of Intracellular Calcium ([Ca2+]1) Inhibition of Lipolysis in Human Adipocytes," FASEB J. 15:2527-2529 [November 2001](expanded version on-line: FASEB J 10.1096/fj.01-0278fje, Published on-line September 17, 2001)			
4	C2	Shi, H., Norman, A.W., Okamura, W.H., Sen, A., Zemel, M.B., [2001] "10,25-dihyroxyvitamin D3 modulates human adipocyte metabolism via nongenomic action," FASEB J. 15:2751-2753 [December 2001] (expanded version on-line: FASEB J 10.1096/fj.01-0584.fje. Published on-line October 17, 2001)			
ł	C3	Zemel, M.B., Geng, X, [Sept. 2001] "Dietary calcium and yogurt accelerate body fat loss secondary to caloric restriction in aP2-agouti transgenic mice," Obesity Res 9:146S			
	C4	BURRINGTON, Kimberly J., "Food Product: Dairy Ingredients for Health," [October 1999] <a href="http://www.kariloren.com/Diabetest/diet/milk/p5.htm&gt;&lt;11/20/2001">http://www.kariloren.com/Diabetest/diet/milk/p5.htm&gt;&lt;11/20/2001</a> >, pages 1 of 17			
	C5	LIN, Yi-Chin, et al., "Dairy Calcium is Related to Change in Body Composition During a Two-Year Exercise Intervention in Young Women", Journal of the American College of Nutrition, Vol. 19, No. 6, 754-760 (2000), pages 754-760			
	C6	DAVIES, K. Michael, "Calcium Intake and Body Weight", The Journal of Clinical Endocrinology & Metabolism, Volume 85, Number 12, December 2000, pages 4635-4638			
	C7	CARRUTH, BR and SKINNER, JD, "The Role of Dietary Calcium and Other Nutrients in Moderating Body Fat in Preschool Children", International Journal of Obesity, Volume 25, Number 4, April 2001, pages 559-566			
	C8	ZEMEL, Michael B., "Dietary Calcium and Dairy Products Accelerate Weight and Fat Loss During Energy Restriction in Obese Adults," American Journal of Clinical Nutrition, [2000] 75(suppl):a342s			
	C9	Heaney, Robert P., "Calcium Needs of the Elderly to Reduce Fracture Risk," Journal of the American College of Nutrition, Vol. 20, No. 20, 192S-197S (2001).	_		
N	C10	Massey, Linda K., "Dairy Food Consumption, Blood Pressure and Stroke," American Society for Nutritional Sciences, 2001, pp. 1875-1878.			

Examiner Signature	Date Considered	12/	0	6
	(		_	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

IDS 4/1/0K

Phase type a plus sign (+) inside this box

Under the Paperwork Reduction Act of 199

Sheet

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

i of 1

		_			
Complete if Known					
Application Number	10/017,568				
Filing Date	December 14, 2001				
First Named Inventor	Michael B. ZEMEL et al.				
Group Art Unit	1617				
Examiner Name	Webman, Edward J.				
Attorney Docket Number	31894-192402	J			

U.S. PATENT DOCUMENTS								
	Cite No.1	U.S. Pa	stent Document	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
Examiner Initials *		Number	Kind Code <sup>2</sup> (if known)					
	Al							
	A2							
	A3							

				FOREIGI	N PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant	
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> ( <i>if known</i> )	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T <sub>6</sub>
	Bl				•			
	B2							

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS								
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
1	Cı	Bouillon, B., et al., "Structure-Function Relationships In The Vitamin D Endocrine System," Endocrine Rev. (1995) pp. 200-57, Vol. 16						
7	C2	Norman, A.W., "Receptor for 10,25(OH) <sub>2</sub> -D <sub>3</sub> : Past, Present, and Future," J. Bone. Miner. Res. (1998) pp. 1360-69, Vol. 13						
	C3	Norman, A., et al., "Demonstration That 1\(\beta\),25-Dihyroxyvitamin D <sub>3</sub> Is An Antagonist Of The Nongenomic But Genomic Biological Response And Biological Profile Of The Three A-Ring Diastereomers Of 1a,25-Dihydroxyvitamin D <sub>3</sub> ", J. Biol. Chem. (1993) pp. 20022-30, Vol. 268						
Y	C4							
1	C5							
	C6							
	C7							
	C8	·						
	С9							

Examiner Signature	1	Date Considered	12	105

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.